

**WHAT IS CLAIMED IS:**

1. A double throw switch linkage for coupling two switch apparatus together in an enclosure, with each switch apparatus coupled to a switch mechanism having a switch mechanism lever arm, the double throw switch linkage comprising:
  - an interlock housing, the interlock housing defining a pair of actuator
  - 5 plate slots and a first orifice and a second orifice, with each orifice configured to provide unimpeded passage of each switch mechanism lever arm;
  - an actuator plate slidingly mounted in the actuator plate slots, with the actuator plate defining a first switch slot, a second switch slot and a driver arm slot, with each switch slot configured to guide a pin mounted on each switch mechanism
  - 10 lever arm; and
  - a lever arm assembly mounted on a side wall of the enclosure, with the lever arm assembly including a lever arm coupled to a driver arm, with the driver arm configured to engage the driver arm slot in the actuator plate,
  - wherein movement of the lever arm translates a force to the actuator
  - 15 plate which closes one switch apparatus and maintains the other switch apparatus in an open position.
2. The double throw switch linkage of claim 1, including an interlock release mechanism configured to release a cover of the enclosure if one of the switch apparatus is closed.
- 20 3. The double throw switch linkage of claim 2, wherein the interlock release mechanism includes an interlock bar coupled to the interlock housing and operatively aligned with each switch apparatus.
4. The double throw switch linkage of claim 1, wherein the actuator plate is a single piece.

5. The double throw switch linkage of claim 1, wherein the actuator plate is composed of a material selected from a group including a metal, a plastic, a composite material, and any two of such materials.

6. An electric double switch comprising:  
5 an enclosure having at least one sidewall, a bottom wall, and a cover;  
a first switch apparatus, including a first switch mechanism having a lever arm, mounted in the enclosure;  
a second switch apparatus, including a second switch mechanism having a lever arm, mounted in the enclosure; and  
10 a double throw switch linkage coupled to each of the first and second switch apparatus,  
the double throw switch linkage comprising:  
an interlock housing, the interlock housing defining a pair of actuator plate slots and a first orifice and a second orifice, with each orifice configured to  
15 provide unimpeded passage of each switch mechanism lever arm;  
an actuator plate slidably mounted in the actuator plate slots, with the actuator plate defining a first switch slot, a second switch slot and a driver arm slot, with each switch slot configured to guide a pin mounted on each switch mechanism lever arm; and  
20 a lever arm assembly mounted on the side wall of the enclosure, with the lever arm assembly including a lever arm coupled to a driver arm, with the driver arm configured to engage the driver arm slot in the actuator plate,  
wherein movement of the lever arm translates a force to the actuator plate which closes one switch apparatus and maintains the other switch apparatus in  
25 an open position.

7. The electric double switch of claim 11, including an interlock release mechanism configured to release a cover of the enclosure if one of the switch apparatus is closed.

8. The electric double switch of claim 12, wherein the interlock release mechanism includes an interlock bar coupled to the interlock housing and operatively aligned with each switch apparatus.

9. The electric double switch of claim 11, wherein the actuator plate is a  
5 single piece.

10. The electric double switch of claim 11, wherein the actuator plate is composed of a material selected from a group including a metal, a plastic, a composite material, and any two of such materials.

11. A method for interlocking two switch apparatus mounted in an  
10 enclosure, with each switch apparatus having a switch mechanism including a switch mechanism lever arm and the enclosure having a cover and a sidewall, the method comprising the steps of:

providing an interlock housing, the housing defining a pair of actuator  
plate slots and a first orifice and a second orifice, with each orifice configured to  
15 provide unimpeded passage of each suited mechanism lever arm;

mounting the interlock housing in the enclosure adjacent to the switch  
mechanism;

providing an actuator plate, with the actuator plate defining a first  
switch slot, a second switch slot and a driver arm slot, with each switch slot  
20 configured to guide a pin mounted on each switch mechanism lever arm;

inserting the actuator plate in each actuator plate slot for free sliding  
movement;

aligning the pin on each switch mechanism lever arm in one of the first  
and second switch slots in the actuator plate;

25 mounting a lever arm assembly on the sidewall of the enclosure, with  
the lever arm assembly including a lever arm coupled to a driver arm;

aligning the driver arm to engage the driver arm slot in the actuator  
plate; and

moving the lever arm to translate a force to the actuator plate wherein one switch apparatus is closed and the other switch apparatus is maintained in an open position.

12. The method of claim 11, including the steps of providing an interlock  
5 release mechanism coupled to the cover and interlock housing, wherein the cover can be opened if one of the switch apparatuses is closed.

13. The method of claim 11, wherein the actuator plate is composed of a material selected from a group including a metal, a plastic, a composite material, and any two of such materials.

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